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NEWS 17 FEB 15 RUSSIAPAT enhanced with pre-1994 records
NEWS 18 FEB 23 KOREAPAT enhanced with IPC 8 features and functionality
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NEWS 21 FEB 26 TOXCENTER enhanced with reloaded MEDLINE
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NEWS 23 FEB 26 CAS Registry Number crossover limit increased from 10,000
to 300,000 in multiple databases
NEWS 24 MAR 15 WPIDS/WPIX enhanced with new FRAGHITSTR display format
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FILE 'PATDPASPC' ENTERED AT 20:30:20 ON 15 APR 2007
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FILE 'WPINDEX' ACCESS NOT AUTHORIZED

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=> s barley (4a) lipoxygenase and (antisense or cosuppression or inhibit? or reduc?)
  11 FILES SEARCHED...
  23 FILES SEARCHED...
  36 FILES SEARCHED...
L1      161 BARLEY (4A) LIPOXYGENASE AND (ANTISENSE OR COSUPPRESSION OR
        INHIBIT? OR REDUC?)
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=> s l1 and (LOX (w) (1 or A) or (lipoxygenase (w) 1))
   5 FILES SEARCHED...
   7 FILES SEARCHED...
  11 FILES SEARCHED...
  14 FILES SEARCHED...
  19 FILES SEARCHED...
  21 FILES SEARCHED...
  25 FILES SEARCHED...
  29 FILES SEARCHED...
  31 FILES SEARCHED...
  42 FILES SEARCHED...
  44 FILES SEARCHED...
L2      93 L1 AND (LOX (W) (1 OR A) OR (LIPOXYGENASE (W) 1))
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=> dup remov l2
DUPLICATE IS NOT AVAILABLE IN 'CAOLD, DGENE, DPCI, IMSPATENTS, LITALERT,
PATDPASPC, PCTGEN, PROUSDDR, PS, RDISCLOSURE, SYNTHLINE'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L2
L3      65 DUP REMOV L2 (28 DUPLICATES REMOVED)
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=> l3 and (mutant or transgenic or transformed) (3a) barley
L3 IS NOT A RECOGNIZED COMMAND
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=> s 13 and (mutant or transgenic or transformed) (3a) barley

12 FILES SEARCHED...

26 FILES SEARCHED...

44 FILES SEARCHED...

L4 15 L3 AND (MUTANT OR TRANSGENIC OR TRANSFORMED) (3A) BARLEY

=> d 14 1-15

L4 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:1336488 CAPLUS

DN 145:334715

TI Barley for production of flavor-stable beer

AU Skadhauge, Birgitte; Knudsen, Soren; Lok, Finn; Olsen, Ole

CS Carlsberg Research Laboratory, Copenhagen/Valby, DK-2500, Den.

SO Proceedings of the Congress - European Brewery Convention (2005), 30th, 76/1-76/13

CODEN: EBCPA6; ISSN: 0367-018X

PB Fachverlag Hans Carl GmbH

DT Journal; (computer optical disk)

LA English

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:1004435 CAPLUS

DN 143:305289

TI Lipoxxygenase-deficient barley for use in brewing

without the development of aldehyde off-flavors

IN Breddam, Klaus; Olsen, Ole; Skadhauge, Birgitte; Lok, Finn; Knudsen, Soren; Bech, Lene Molskov

PA Carlsberg A/S, Den.

SO U.S. Pat. Appl. Publ., 96 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005204437	A1	20050915	US 2004-800200	20040311
	AU 2005221763	A1	20050922	AU 2005-221763	20050309
	CA 2558815	A1	20050922	CA 2005-2558815	20050309
	WO 2005087934	A2	20050922	WO 2005-DK160	20050309
	WO 2005087934	A3	20060202		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	EP 1727905	A2	20061206	EP 2005-706820	20050309
	R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BA, HR, LV, MK, YU			
PRAI	US 2004-800200	A	20040311		
	WO 2005-DK160	W	20050309		

L4 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:824036 CAPLUS

DN 141:326805
 TI Mutant barley lipoxygenase 1 gene,
 G→A substitution at the intron 5 splicing donor site, PCR-RFLP
 selection of lox-1 deficient barley cultivar for use
 in brewing
 IN Hirota, Naohiko; Kaneko, Takafumi; Kuroda, Hisao; Kaneda, Hirotaka; Takoi,
 Kiyoshi; Takeda, Kazuyoshi
 PA Sapporo Breweries Limited, Japan
 SO PCT Int. Appl., 78 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004085652	A1	20041007	WO 2004-JP4217	20040325
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	JP 2004290024	A	20041021	JP 2003-83924	20030325
	AU 2004223568	A1	20041007	AU 2004-223568	20040325
	CA 2519824	A1	20041007	CA 2004-2519824	20040325
	EP 1609866	A1	20051228	EP 2004-723378	20040325
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
	BR 2004008764	A	20060328	BR 2004-8764	20040325
	CN 1764724	A	20060426	CN 2004-80007962	20040325
PRAI	JP 2003-83924	A	20030325		
	WO 2004-JP4217	A	20040325		

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2003:696619 CAPLUS
 DN 139:225519
 TI Sequences of mutant Hordeum vulgare lipoxygenase-1 (LOX-1) and use for generating transgenic plant with low lipoxygenase 1 activity
 IN Douma, Anna Christina; Doderer, Albert; Cameron-Mills, Verena; Skadhauge, Birgitte; Bech, Lene Moelskov; Schmitt, Natalie; Heistek, Jolanda Carolina; Van Mechelen, Johannes Reinier
 PA Neth.
 SO U.S. Pat. Appl. Publ., 66 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003167544	A1	20030904	US 2000-751687	20001229
	US 6660915	B2	20031209		
	CA 2433250	A1	20020711	CA 2001-2433250	20010122
	WO 2002053721	A1	20020711	WO 2001-IB207	20010122
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,				

LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
 SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
 YU, ZA, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 AU 2001230454 A1 20020716 AU 2001-230454 20010122
 EP 1346030 A1 20030924 EP 2001-902597 20010122
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 EE 200300257 A 20031015 EE 2003-257 20010122
 BR 2001016579 A 20040420 BR 2001-16579 20010122
 JP 2004522434 T 20040729 JP 2002-555231 20010122
 HU 200401290 A2 20040928 HU 2004-1290 20010122
 HU 200401290 A3 20050628
 NZ 527171 A 20050729 NZ 2001-527171 20010122
 IN 2003DN01035 A 20060317 IN 2003-DN1035 20030703
 BG 107971 A 20040930 BG 2003-107971 20030704
 ZA 2003005786 A 20041229 ZA 2003-5786 20030728
 PRAI US 2000-751687 A 20001229
 WO 2000-IB2045 W 20001229
 WO 2001-IB207 W 20010122

L4 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:521961 CAPLUS

DN 137:90190

TI Construction of mutant barley lipooxygenase
 1 gene, characterization of the mutant lipooxygenase
 1 with severely reduced activity, and use of the low-
 lipooxygenase 1 barley cultivar in brewing

IN Douma, Anneke Christiana; Doderer, Albert; Cameron-Mills, Varena;
 Skadhauge, Birgitte; Bech, Lene Molskov; Schmitt, Natalie; Heistek,
 Jolanda Carolina; Van Mechelen, Johannes Reinier

PA Carlsberg Research Laboratory, Den.; Heineken Technical Services B.V.;
 Brasseries Kronenbourg

SO PCT Int. Appl., 112 pp.
 CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002053720	A1	20020711	WO 2000-IB2045	20001229
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
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	AU 2000280392	A1	20020716	AU 2000-280392	20001229
	CA 2433250	A1	20020711	CA 2001-2433250	20010122
	WO 2002053721	A1	20020711	WO 2001-IB207	20010122
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
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AU 2001230454	A1	20020716	AU 2001-230454	20010122
EP 1346030	A1	20030924	EP 2001-902597	20010122
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR.				
EE 200300257	A	20031015	EE 2003-257	20010122
BR 2001016579	A	20040420	BR 2001-16579	20010122
JP 2004522434	T	20040729	JP 2002-555231	20010122
HU 200401290	A2	20040928	HU 2004-1290	20010122
HU 200401290	A3	20050628		
NZ 527171	A	20050729	NZ 2001-527171	20010122
BG 107971	A	20040930	BG 2003-107971	20030704
PRAI US 2000-751687	A	20001229		
WO 2000-IB2045	W	20001229		
WO 2001-IB207	W	20010122		

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L4 ANSWER 6 OF 15 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
AN 2004:58397 BIOSIS
DN PREV200400060145
TI Low lipoxxygenase 1 barley.
AU Douma, Anna Christina [Inventor, Reprint Author]; Doderer, Albert
[Inventor]; Cameron-Mills, Verena [Inventor]; Skadhauge, Birgitte
[Inventor]; Bech, Lene Moelskov [Inventor]; Schmitt, Natalie [Inventor];
Heistek, Jolanda Carolina [Inventor]; van Mechelen, Johannes Reinier
[Inventor]
CS Eikenlaan 11B, 3707 SB, Zeist, Netherlands
PI US 6660915 20031209
SO Official Gazette of the United States Patent and Trademark Office Patents,
(Dec 9 2003) Vol. 1277, No. 2. <http://www.uspto.gov/web/menu/patdata.html>.
e-file.
ISSN: 0098-1133 (ISSN print).
DT Patent
LA English
ED Entered STN: 21 Jan 2004
Last Updated on STN: 21 Jan 2004

L4 ANSWER 7 OF 15 WPIX COPYRIGHT 2007 THE THOMSON CORP on STN
AN 2002-557742 [59] WPIX
CR 2002-557741
DNC C2002-158365 [59]
DNN N2002-441455 [59]
TI Novel barley plants having low lipoxxygenase activity
useful in the production of plant products such as malt or brewed
beverages, particularly beer having increased stability and flavor
DC C06; D16; P13
IN BECH L M; CAMERON-MILLS V; DODERER A; DOUMA A C; HEISTEK J C; MECHELEN V;
REINNER J; SCHMITT N; SCMITT N; SKADHAUGE B; SKADHAUGE B C R L; VAN
MECHELEN J R
PA (BECH-I) BECH L M; (BRAS-N) BRASSERIES KRONENBOURG SA; (CAME-I)
CAMERON-MILLS V; (CARL-N) CARLSBERG RES LAB; (DODE-I) DODERER A; (DOUM-I)
DOUMA A C; (HETB-C) HEINEKEN TECH SERVICES BV; (HEIS-I) HEISTEK J C;
(SCHM-I) SCHMITT N; (SKAD-I) SKADHAUGE B; (VMEC-I) VAN MECHELEN J R
CYC 93
PI WO 2002053721 A1 20020711 (200259)* EN 112[22] C12N009-02
US 20030167544 A1 20030904 (200359) EN C12N015-82
EP 1346030 A1 20030924 (200363) EN
CZ 2003001872 A3 20031112 (200379) CS
US 6660915 B2 20031209 (200381) EN C12N015-82
AU 2001230454 A1 20020716 (200427) EN
BR 2001016579 A 20040420 (200428) PT C12N009-02
SK 2003000937 A3 20040504 (200433) SK
JP 2004522434 W 20040729 (200452) JA 151 A01H005-00
HU 2004001290 A2 20040928 (200470) HU

ZA 2003005786 A 20041229 (200505) EN 25 C12N000-00
 NZ 527171 A 20050729 (200551) EN C12N009-02
 IN 2003001035 P1 20060317 (200626) EN
 ADT WO 2002053721 A1 WO 2001-IB207 20010122; US 20030167544 A1 US 2000-751687
 20001229; US 6660915 B2 US 2000-751687 20001229; AU 2001230454 A1 AU
 2001-230454 20010122; BR 2001016579 A BR 2001-16579 20010122; EP 1346030
 A1 EP 2001-902597 20010122; NZ 527171 A NZ 2001-527171 20010122; EP
 1346030 A1 WO 2001-IB207 20010122; CZ 2003001872 A3 WO 2001-IB207
 20010122; BR 2001016579 A WO 2001-IB207 20010122; SK 2003000937 A3 WO
 2001-IB207 20010122; JP 2004522434 W WO 2001-IB207 20010122; HU 2004001290
 A2 WO 2001-IB207 20010122; NZ 527171 A WO 2001-IB207 20010122; JP
 2004522434 W JP 2002-555231 20010122; CZ 2003001872 A3 CZ 2003-1872
 20010122; SK 2003000937 A3 SK 2003-937 20010122; ZA 2003005786 A ZA
 2003-5786 20030728; HU 2004001290 A2 HU 2004-1290 20010122; IN 2003001035
 P1 WO 2001-IB207 20010122; IN 2003001035 P1 IN 2003-DN1035 20030703
 FDT EP 1346030 A1 Based on WO 2002053721 A; CZ 2003001872 A3 Based on WO
 2002053721 A; AU 2001230454 A1 Based on WO 2002053721 A; BR 2001016579 A
 Based on WO 2002053721 A; SK 2003000937 A3 Based on WO 2002053721 A; JP
 2004522434 W Based on WO 2002053721 A; HU 2004001290 A2 Based on WO
 2002053721 A; NZ 527171 A Based on WO 2002053721 A
 PRAI WO 2000-IB2045 20001229
 US 2000-751687 20001229
 WO 2000-EP2045 20001229
 IC ICM A01H005-00; C12N009-02
 ICS A01H005-10
 IPCR A01H0005-00 [I,A]; A01H0005-00 [I,C]; A23L0002-38 [I,A]; A23L0002-38
 [I,C]; C12C0001-00 [I,A]; C12C0001-00 [I,C]; C12C0001-18 [I,A];
 C12C0005-00 [I,A]; C12C0005-00 [I,C]; C12N0015-09 [I,A]; C12N0015-09
 [I,C]; C12N0015-82 [I,A]; C12N0015-82 [I,C]; C12N0009-02 [I,A];
 C12N0009-02 [I,C]

L4 ANSWER 8 OF 15 DGENE COPYRIGHT 2007 The Thomson Corp on STN
 AN ABG30567 Protein DGENE
 TI Novel barley plants having low lipoxxygenase activity
 useful in the production of plant products such as malt or brewed
 beverages, particularly beer having increased stability and flavor -
 IN Douma A C; Doderer A; Cameron-mills V; Skadhauge B; Bech L M; Schmitt N;
 Heistek J C; Van Mechelen J R
 PA (CARL-N) CARLSBERG RES LAB.
 (HETB) HEINEKEN TECH SERVICES BV.
 (BRAS-N) BRASSERIES KRONENBOURG SA.
 PI WO 2002053721 A1 20020711 112
 AI WO 2001-IB207 20010122
 PRAI US 2000-751687 20001229
 WO 2000-IB2045 20001229
 DT Patent
 LA English
 OS 2002-557742 [59]
 CR N-PSDB: ABK88516
 DESC Mutant type barley low-lipoxxygenase
 1.

L4 ANSWER 9 OF 15 DGENE COPYRIGHT 2007 The Thomson Corp on STN
 AN ABK88521 cDNA DGENE
 TI Novel barley plants having low lipoxxygenase activity
 useful in the production of plant products such as malt or brewed
 beverages, particularly beer having increased stability and flavor -
 IN Douma A C; Doderer A; Cameron-mills V; Skadhauge B; Bech L M; Schmitt N;
 Heistek J C; Van Mechelen J R
 PA (CARL-N) CARLSBERG RES LAB.
 (HETB) HEINEKEN TECH SERVICES BV.
 (BRAS-N) BRASSERIES KRONENBOURG SA.
 PI WO 2002053721 A1 20020711 112
 AI WO 2001-IB207 20010122

PRAI US 2000-751687 20001229
WO 2000-IB2045 20001229
DT Patent
LA English
OS 2002-557742 [59]
DESC DNA encoding Line G barley low-lipoxygenase 1

L4 ANSWER 10 OF 15 DGENE COPYRIGHT 2007 The Thomson Corp on STN
AN ABK88520 DNA DGENE
TI Novel barley plants having low lipoxygenase activity
useful in the production of plant products such as malt or brewed
beverages, particularly beer having increased stability and flavor -
IN Douma A C; Doderer A; Cameron-mills V; Skadhaug B; Bech L M; Schmitt N;
Heistek J C; Van Mechelen J R
PA (CARL-N) CARLSBERG RES LAB.
(HETB) HEINEKEN TECH SERVICES BV.
(BRAS-N) BRASSERIES KRONENBOURG SA.
PI WO 2002053721 A1 20020711 112
AI WO 2001-IB207 20010122
PRAI US 2000-751687 20001229
WO 2000-IB2045 20001229
DT Patent
LA English
OS 2002-557742 [59]
DESC Mutant barley low-lipoxygenase 1
nucleotides 2332-2362.

L4 ANSWER 11 OF 15 DGENE COPYRIGHT 2007 The Thomson Corp on STN
AN ABK88516 DNA DGENE
TI Novel barley plants having low lipoxygenase activity
useful in the production of plant products such as malt or brewed
beverages, particularly beer having increased stability and flavor -
IN Douma A C; Doderer A; Cameron-mills V; Skadhaug B; Bech L M; Schmitt N;
Heistek J C; Van Mechelen J R
PA (CARL-N) CARLSBERG RES LAB.
(HETB) HEINEKEN TECH SERVICES BV.
(BRAS-N) BRASSERIES KRONENBOURG SA.
PI WO 2002053721 A1 20020711 112
AI WO 2001-IB207 20010122
PRAI US 2000-751687 20001229
WO 2000-IB2045 20001229
DT Patent
LA English
OS 2002-557742 [59]
CR P-PSDB: ABG30567
DESC DNA encoding mutant type barley low-
lipoxygenase 1.

L4 ANSWER 12 OF 15 EPFULL COPYRIGHT 2007 EPO/FIZ KA on STN
AN 2004:34438 EPFULL
DUPD 20041201 DUPW 200449
TIEN BARLEY LIPOXYGENASE 1 GENE, METHOD OF
SELECTING BARLEY VARIETY, MATERIAL OF MALT ALCOHOLIC DRINKS AND PROCESS
FOR PRODUCING MALT ALCOHOLIC DRINK.
TIFR GENE DE LIPOXYGENASE-1 D'ORGE, PROCEDE DE SELECTION
D'UNE VARIETE D'ORGE, SUBSTANCE POUR BOISSONS ALCOOLISEES A BASE DE MALT
ET PROCEDE DE PRODUCTION D'UNE BOISSON ALCOOLISEE A BASE DE MALT.
IN Hirota, N. Sapporo Breweries Ltd. Bioresources Res, & Dev. Labs 37-1
Kizaki, Nitta-machi, Nitta-gun, Gunma, 3700393, JP;
Kaneko, T. Sapporo Breweries Ltd. Bioresources Res, & Dev. Labs 37-1
Kizaki, Nitta-machi, Nitta-gun, Gunma, 3700393, JP;
Kuroda, H. Sapporo Breweries Ltd. Frontier Labs of, Value Creation 10,

Okatohme, Yaizu-shi, Shizuoka;4250013, JP;
 Kaneda, H. Sapporo Breweries Ltd. Frontier Labs of, Value Creation 10,
 Okatohme, Yaizu-shi, Shizuoka;4250013, JP;
 Takoi, K. Sapporo Breweries Ltd. Frontier Labs. of, Value Creation 10,
 Okatohme, Yaizu-shi, Shizuoka;4250013, JP;
 Takeda, Kazuyoshi, 1169-171, Ariki, Kurashiki-shi, Okayama, 7100031, JP
 PA Sapporo Breweries Limited, 20-1, Ebisu 4-chome, Shibuya-ku, Tokyo
 150-8522, JP
 PAN 283777
 DT Patent
 LAF Japanese
 LA English
 LAP English
 TL English; French
 PIT WO/1 International application published with search report
 PI WO 2004085652 A1 20041007
 DS AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO
 SE SI SK TR
 EXTENSION STATES: AL LT LV MK
 AI EP 2004-723378 A 20040325
 WO 2004-JP4217 A 20040325
 PRAI JP 2003-83924 A 20030325
 IC.VER 7
 ICM C12N015-53
 ICS C12Q001-68; C12N009-08; C12C001-00

 AN 2004:34438 EPFULL ED 20051228 UP 20060629
 DUPD 20060628 DUPW 200626
 TIEN BARLEY LIPOXYGENASE- 1 GENE, SELECTION
 METHOD FOR BARLEY, MATERIALS FOR MALT ALCOHOLIC BEVERAGES AND METHOD FOR
 PRODUCTION OF MALT ALCOHOLIC BEVERAGES.
 TIFR GENE DE LIPOXYGENASE-1 D'ORGE, PROCEDE DE SELECTION
 D'UNE VARIETE D'ORGE, SUBSTANCE POUR BOISSONS ALCOOLISEES A BASE DE MALT
 ET PROCEDE DE PRODUCTION D'UNE BOISSON ALCOOLISEE A BASE DE MALT.
 TIDE GERSTE-LIPOXYGENASE-1-GEN, VERFAHREN ZUR SELEKTION
 EINER GERSTESORTE, MATERIAL FUEr ALKOHOLISCHE MALZGETRAENKE SOWIE
 VERFAHREN ZUR HERSTELLUNG EINES ALKOHOLISCHEN MALZGETRAENKS.
 IN Hirota, Naohiko,c/o Sapporo Breweries Ltd., 37-1 Kizaki, Nitta-machi,
 Nitta-gun, Gunma, 3700393, JP;
 Kaneko, Takafumic/o Sapporo Breweries Ltd., 37-1 Kizaki, Nitta-machi,
 Nitta-gun, Gunma, 3700393, JP;
 Kuroda, Hisao,c/o Sapporo Breweries Ltd., Value Creation10, Okatohme,
 Yaizu-shi, Shizuoka 4250013, JP;
 Kaneda, Hirotakac/o Sapporo Breweries Ltd., Value Creation10, Okatohme,
 Yaizu-shi, Shizuoka 4250013, JP;
 Takoi, Kiyoshi,c/o Sapporo Breweries Ltd., Value Creation10, Okatohme,
 Yaizu-shi, Shizuoka 4250013, JP;
 Takeda, Kazuyoshi, 1169-171, Ariki, Kurashiki-shi, Okayama 7100031, JP
 PA Sapporo Breweries Limited, 20-1, Ebisu 4-chome, Shibuya-ku, Tokyo
 150-8522, JP
 PAN 283777
 AG Vossius & Partner, Siebertstrasse 4, 81675 Muenchen, DE
 AGN 100314
 DT Patent
 LAF Japanese
 LA English
 LAP English
 TL German; English; French
 PIT EP/1 Application published with search report
 PI EP 1609866 A1 20051228
 WO 2004085652 20041007
 DS AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO
 SE SI SK TR
 AI EP 2004-723378 A 20040325

WO 2004-JP4217 A 20040325
PRAI JP 2003-83924 A 20030325
IPCI C12N0015-53 [I,A]; C12Q0001-68 [I,A]; C12N0009-08 [I,A]; C12C0001-00
 [I,A]
 C12N0015-53 [I,C*]; C12Q0001-68 [I,C*]; C12N0009-08 [I,C*]; C12C0001-00
 [I,C*]

L4 ANSWER 13 OF 15 INPADOC COPYRIGHT 2007 EPO on STN

LEVEL 1

AN 278449078 INPADOC ED 20050811 EW 200532 UP 20050825 UW 200534
TI Low-lipoxygenase 1 barley.
IN DOUMA, ANNEKE CHRISTIANA; DODERER, ALBERT; CAMERON-MILLS, VARENA;
 SKADHAUGE, BIRGITTE; BECH, LENE MOLSKOV; CHMITT, NATALIE; HEISTEK,
 JOLANDA CAROLINA; VAN MECHELEN, JOHANNES REINIER
INS DOUMA ANNEKE CHRISTIANA; DODERER ALBERT; CAMERON-MILLS VARENA; SKADHAUGE
 BIRGITTE; BECH LENE MOLSKOV; CHMITT NATALIE; HEISTEK JOLANDA CAROLINA;
 VAN MECHELEN JOHANNES REINIER
PA CARLSBERG RESEARCH LABORATORY; HEINEKEN TECHNICAL SERVICES BV; BRASSERIES
 KRONENBOURG
PAS CARLSBERG RES LAB; HEINEKEN TECH SERVICES; KRONENBOURG BRASSERIES
TL English
DT Patent
PIT NZA COMP. SPECIFICATION ACCEPTED
PI NZ 527171 A 20050729
AI NZ 2001-527171 A 20010122
PRAI WO 2000-IB2045 W 20001229 (EDPR 20030929)
 WO 2001-IB207 W 20010122 (EDPR 20030929)
 US 2000-751687 A 20001229 (EDPR 20020802)
OSDW 2002-557742

L4 ANSWER 14 OF 15 INPADOC COPYRIGHT 2007 EPO on STN

LEVEL 1

AN 217210897 INPADOC ED 20031006 EW 200340 UP 20050120 UW 200503
TI LOW-LIPOXYGENASE 1 BARLEY.
 ORGE A LIPOXYGENASE 1 FAIBLE.
IN VAN MECHELEN, JOHANNES REINIER; DOUMA, ANNA CHRISTIANA; HEISTEK, JOLANDA
 CAROLINA; CAMERON-MILLS, VARENA; BECH, LENE MOLSKOV; SKADHAUGE, BIRGITTE;
 DODERER, ALBERT; SCHMITT, NATHALIE
INS VAN MECHELEN JOHANNES REINIER; DOUMA ANNA CHRISTIANA; HEISTEK JOLANDA
 CAROLINA; CAMERON-MILLS VARENA; BECH LENE MOLSKOV; SKADHAUGE BIRGITTE;
 DODERER ALBERT; SCHMITT NATHALIE
INA NL; NL; NL; DK; DK; DK; NL; NL
PA CARLSBERG RESEARCH LABORATORY; BRASSERIES KRONENBOURG; HEINEKEN TECHNICAL
 SERVICES B.V.
PAS CARLSBERG RES LAB; KRONENBOURG BRASSERIES; HEINEKEN TECH SERVICES
PAA DK; FR; NL
TL English; French
LA English
DT Patent
PIT CAAA LAID-OPEN APPLICATION
PI CA 2433250 AA 20020711
AI CA 2001-2433250 A 20010122
PRAI WO 2000-IB2045 A 20001229 (EDPR 20020802)
 WO 2001-IB207 W 20010122 (EDPR 20030929)
 US 2000-751687 A 20001229 (EDPR 20020802)

L4 ANSWER 15 OF 15 PCTFULL COPYRIGHT 2007 Univentio on STN

AN 2005087934 PCTFULL ED 20050927 EW 200538
TIEN BARLEY FOR PRODUCTION OF FLAVOR-STABLE BEVERAGE
TIFR ORGE POUR LA PRODUCTION DE BOISSON DE SAVEUR STABLE
IN BREDDAM, Klaus, Agertofte 31, Osted, DK-4000 Roskilde, DK [DK, DK];
 OLSEN, Ole, Holmbladsgade 102 tv, DK-2300 Copenhagen S, DK [DK, DK];

SKADHAUGE, Birgitte, Lindehojvej 31B, DK-3460 Birkerod, DK [DK, DK];
 LOK, Finn, Kongshaven 15, DK-2500 Valby, DK [DK, DK];
 KNUDSEN, Soren, Bakkesvinget 18, DK-2760 Malov, DK [DK, DK];
 BECH, Lene, Molskov, Liljehaven 83, DK-2765 Smorum, DK [DK, DK]
 PA CARLSBERG A/S, Valby Langgade 1, DK-2500 Valby, DK [DK, DK], for all
 designates States except US;
 BREDDAM, Klaus, Agertoften 31, Osted, DK-4000 Roskilde, DK [DK, DK], for
 US only;
 OLSEN, Ole, Holmbladsgade 102 tv, DK-2300 Copenhagen S, DK [DK, DK], for
 US only;
 SKADHAUGE, Birgitte, Lindehojvej 31B, DK-3460 Birkerod, DK [DK, DK], for
 US only;
 LOK, Finn, Kongshaven 15, DK-2500 Valby, DK [DK, DK], for US only;
 KNUDSEN, Soren, Bakkesvinget 18, DK-2760 Malov, DK [DK, DK], for US
 only;
 BECH, Lene, Molskov, Liljehaven 83, DK-2765 Smorum, DK [DK, DK], for US
 only
 AG HOIBERG A/S, St. Kongengsgade 59A, DK-1264 Copenhagen K, DK
 LAF English
 LA English
 DT Patent
 PI WO 2005087934 A2 20050922
 DS W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR
 CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID
 IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG
 MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE
 SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA
 ZM ZW
 W-U: AE AL AM AT AZ BG BR BY BZ CN CO CR CZ DE DK EC EE EG ES
 FI GE HU JP KE KG KP KR KZ LS MD MX MZ NI PH PL PT RU SK
 SL TJ TR TT UA UG UZ YU
 RW (ARIPO): BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
 RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
 RW (EPO): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT
 LU MC NL PL PT RO SE SI SK TR
 RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 RW-U (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 PRAI US 2004-10/800,200 20040311
 AI WO 2005-DK160 A 20050309
 ICM C12N015-82

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